

REMARKS

Claims 1-3 are pending in the present application. Applicant respectfully requests withdrawal of the rejections, and allowance of the claims.

I. Claim 1 would not have been obvious

Claim 1 stands rejected due to alleged obviousness under 35 U.S.C. § 103(a) over Applicant's related art (hereafter "ARA") Hiroshima (U.S. Patent No. 5,174,013, hereafter "Hiroshima"). Claim 1 also stands rejected under § 103 over ARA in view of Gramlich (U.S. Patent No. 3,868,766, hereafter "Gramlich"). Applicant respectfully submits that the Examiner's proposed combination fails to disclose or suggest all of the claimed combinations of features, as required for a prima facie obviousness rejection. For at least the reasons herein, Applicant respectfully requests withdrawal of these §103 rejections, and allowance of claim 1.

A. Hiroshima and ARA

Hiroshima discloses a field winding having a flat rectangular shape, in which a pair of opposite flat surfaces is parallel. Further, Hiroshima discloses that the pair of opposite flat surfaces face each other relative to a radial direction of the cylindrical portion. Further, at column 3, lines 25-31, Hiroshima discloses that "After the end portion of the circular wire is connected to the connecting portion 3a, the slide block 12 is elevated ... by the pressure of the sliding cylinder 13 in order to reduce the space between the first shaping roller 6a and the second shaping roller 6a for adjusting the deforming amount of the wire 4b." The thickness of the portion of the wire housed in the recessed groove is extremely thin compared with that of the portion wound on the cylindrical portion of the bobbin. (see Figure 3 of Hiroshima). Therefore,

Applicant respectfully submits that the portion of the wire housed in the recessed groove is a circular cross-section.

Applicant respectfully submits that the Examiner's proposed combination fails to disclose or suggest all of the claimed combinations of features. For example, but not by way of limitation, Applicant respectfully submits that Hiroshima, combined with ARA as proposed by the Examiner, does not teach or suggest that a starting portion of the field winding is housed in the recessed groove so as to make the opposite flat surfaces square with an axis of the bobbin, as recited in claim 1. As acknowledged by the Examiner, ARA fails to disclose that claimed feature. Further, Applicant respectfully submits that the Examiner's proposed combination of Hiroshima into ARA fails to cure that acknowledged deficiency.

Further, Applicant respectfully submits that the proposed combination fails to teach or suggest a field winding wound a predetermined number of turns into multiple layers relative to the radial direction and into multiple rows relative to the axial direction on the field winding mounting portion, in which a radial length thereof is shorter than an axial length thereof, as recited in independent claim 1. Thus, Applicant respectfully requests withdrawal of the foregoing rejection.

B. Gramlich and ARA

Gramlich discloses the coil body constructed by forming a ring-shaped coil element 38 by winding the conductor 18 a predetermined number of turns spirally into multiple layers relative to the radial direction, wrapping the coil element 38 in the sheet 47, and then bonding the sheet 47 together, as at 48 and 50.

Applicant respectfully submits that Gramlich does not disclose the bobbin on which the conductor is wound. Therefore, it is submitted that Gramlich does not disclose the flange portion of the bobbin. Further, the coil element 37 is formed by winding the conductor into one row relative to the axial direction.

Applicant respectfully submits that the Examiner's proposed combination fails to disclose or suggest all of the claimed combination of features. For example, but not by way of limitation, Applicant respectfully submits that the proposed combination of ARA and Gramlich fails to disclose or suggest that a starting portion of the field winding is housed in the recessed groove so as to make the opposite flat surfaces square with an axis of the bobbin, as recited in claim 1.

Further, Applicant respectfully submits that the proposed combination fails to teach or suggest that a field winding wound a predetermined number of turns into multiple layers relative to the radial direction and into multiple rows relative to the axial direction on the field winding mounting portion, in which a radial length thereof is shorter than an axial length thereof, as recited in independent claim 1.

Also, Applicant respectfully submits that because Gramlich is rounded, the proposed combination fails to disclose or suggest a flat rectangular shape, as well as making the opposite flat surfaces square with an axis of the bobbin, as recited in independent claim 1.

Therefore, Applicant respectfully requests withdrawal of the rejections, and allowance of the claims.

II. Claims 2 and 3 would not have been obvious

Claim 2 stands rejected under §103(a) over the related art and Hiroshima, or alternatively, Gramlich, in view of Harris et al. (U.S. Patent No. 5,539,265), and claim 3 stands rejected under §103(a) over the related art and Hiroshima, or alternatively, Gramlich, in view of Harris et al. (U.S. Patent No. 5,892,313). Applicant respectfully submits that the Examiner's proposed combinations of references fail to disclose or suggest all of the claimed combinations of features. For at least the reasons herein, Applicant respectfully requests withdrawal of the rejections, and allowance of the claims.

Claims 2 and 3 depend from independent claim 1. Applicant respectfully submits that dependent claims 2 and 3 are allowable for at least the same reasons discussed above with respect to independent claim 1. Therefore, Applicant respectfully requests withdrawal of the rejections, and allowance of the claims.

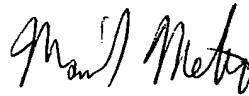
III. Conclusion

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

Response Under 37 C.F.R. § 1.111
U.S. Appln. No. 09/281,059

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



Mainak H. Mehta
Registration No. 46,924

SUGHRUE MION, PLLC
Telephone: (202) 293-7060
Facsimile: (202) 293-7860

WASHINGTON OFFICE



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